

Datasheet for 200-301-I07**RANKL Antibody****Overview**

Description:	Anti-RANKL (MOUSE) Monoclonal Antibody - 200-301-I07
Item No.:	200-301-I07
Size:	100 µg
Applications:	ChIP, ELISA, FC, IF, IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-RANKL TRANCE CD254 detects mouse RANKL TRANCE CD254. RANKL, or Trance, is a member of tumor necrosis factor family. Trance (TNF-related activation-induced cytokine receptor) or RANKL {receptor activator of NF-κB (RANK) ligand} has been implicated in interactions between T cells and DCs. Trance binds to RANK on DCs and upregulates the expression of anti-apoptotic protein Bcl-XL suggesting a role in DC survival. Trance is also important in T- and B-cell maturation. As OPGL/ODF (Osteoprotegerin Ligand/Osteoclast differentiation factor), the same protein can both activate mature osteoclasts and mediate osteoclastogenesis. Trance deficient mice show severe osteoporosis and complete absence of osteoclasts as a result of lack of osteogenesis. Anti-RANKL TRANCE CD254 is ideal for investigators involved in apoptosis research.
Synonyms:	CD254, hRANKL2, ODF, OPGL, OPTB2, RANKL, sOdf, TRANCE, Tumor necrosis factor ligand superfamily member 11, Osteoclast differentiation factor, Osteoprotegerin ligand, Receptor activator of nuclear factor kappa-B ligand, TNF-related activation-induced cytokine
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	12A668
Format:	IgG1

Target Details

Gene Name:	TNFSF11
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Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	RANKL Antibody was produced in mice by repeated immunizations with a bacterially expressed fusion protein corresponding to the n-terminus RANKL protein.
Purity/Specificity:	Anti-RANKL Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with RANKL from Human and mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-RANKL from other sources has not been determined.
Relevant Links:	• UniProtKB - O14788 • NCBI - NP_003692.1 • GeneID - 8600

Application Details

Tested Applications:	ChIP, ELISA, FC, IF, IHC, WB
Application Note:	Anti-RANKL Antibody is tested for use in WB, ChIP, ELISA, Flow-CS, ICC/IF, IHC, and IHC-P. Expect a band approximately 35.5 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:10-1:2000, Paraffin: 5 ug/ml
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide

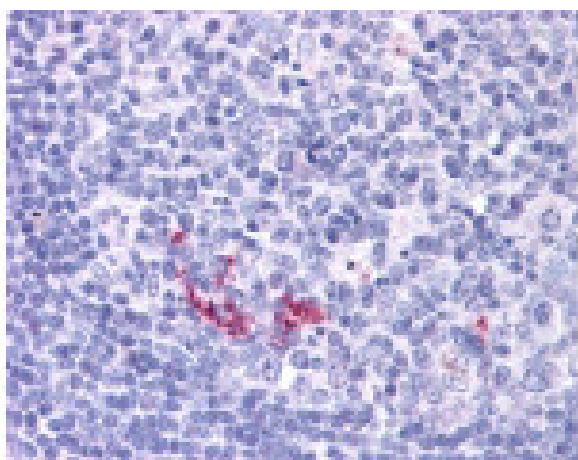
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

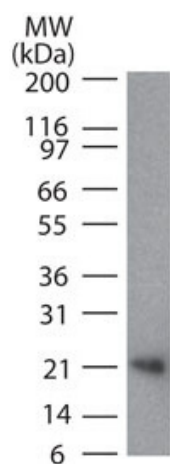
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of mouse Anti-RANKL antibody.
Tissue A: Human lymph node. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required.
Primary antibody: RANKL antibody at 1:2000 for 1 h at RT.
Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization:
RANKL/CD254 is a single-pass type II membrane protein with several isoforms. Staining:
RANKL is precipitated as a red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of Mouse Anti-RANKL/CD254 antibody. Lane 1: Partial recombinant Trance protein.
Primary antibody: TRANCE antibody at 2 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for TRANCE. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.